EXHIBIT 33

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Page 1
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           DR. KUMAR BELANI CONFIDENTIAL
 2
              UNITED STATES DISTRICT COURT
 3
                   DISTRICT OF MINNESOTA
     In re Bair Hugger Forced Air Warming
     Products Liability Litigation
 5
 6
                              MDL NO. 15-2666
                               (JNE/FLN)
 7
     This Document Relates To:
     All Actions
10
11
                    ***CONFIDENTIAL***
12
                VIDEOTAPED DEPOSITION OF
13
                     DR. KUMAR BELANI
14
                    September 7, 2016
15
                        9:11 a.m.
16
17
18
     Being held at: Children's Rehabilitation Center
19
                     426 Church Street SE
20
                     Minneapolis, MN
21
22
23
24
     Reported by: Mari A. Skalicky
     Job No. 112500
25
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	Page 106		Page 107
1	DR. KUMAR BELANI CONFIDENTIAL	1	DR. KUMAR BELANI CONFIDENTIAL
2	Q. Did Paul McGovern say anything in	2	A. Where is that?
3	particular at those meetings that you	3	Q. Do you sort of see look at the first
4	remember?	4	paragraph.
5	A. No.	5	A. Okay.
6 7	Q. What questions did you have of Mark	6 7	MR. DUNDER: Right there
8	Albrecht once he approached you about	8	(indicating).
9	this?	9	A. Okay. Yeah. BY MS. LEWIS:
10	A. Not I don't think I had very many	10	
11	questions. Q. You just said, "We'd be interested in	11	Q. Did I read that correctly?A. Yeah.
12	doing some research"?	12	Q. And this was a study in which you were
13	A. No, I mean, I said the idea makes sense,	13	looking to see whether bubbles would move
14	so let's do it.	14	over the surgical field. Correct?
15	Q. Do you still have Exhibit 4 in front of	15	A. Correct.
16	you?	16	Q. And one of the conclusions reached was,
17	A. Yep. Yes.	17	"We are unsure of the exact degree of
18	Q. If you will turn to page 410, kind of	18	ventilation disruption that might occur in
19	one-third down, first full paragraph. I'm	19	a working OR during orthopedic surgery."
20	four sentences I'm four lines down. It	20	Correct?
21	says, "Thus, we are unsure of the exact	21	A. That's in the discussion, yeah.
22	degree of ventilation disruption that	22	Q. Right.
23	might occur in a working OR during	23	A. Not in the results.
24	orthopedic surgery." I read that	24	Q. Did you author that particular sentence?
25	correctly. Right?	25	A. Don't remember.
			_ 100
	Page 108		Page 109
1	DR. KUMAR BELANI CONFIDENTIAL	1	DR. KUMAR BELANI CONFIDENTIAL
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2	A. It's	2	BY MS. LEWIS:
3	MS. CONLIN: Asked and answered.	3	Q. The anesthesia person was standing still.
4	A. It's the same thing; if when you have a	4	Correct?
5	flight simulator, and when you have a real	5	A. Correct.
6	life situation, hopefully the simulator	6	Q. In a real life orthopedic surgery, the
7	would try to mimic the real life.	7	anesthesia person has to move around from
8	BY MS. LEWIS:	8	time to time. Correct?
9	Q. For example, the orth number one,	9	A. As required, yeah.
10 11	there'd be an orthopedic surgeon in the	10 11	Q. And
12	room. Correct? A. That's what we've said. In the next	12	A. Usually not, but usually they're on the head end.
13	statement, I think it says that. Right?	13	Q. During an orthopedic surgery, you're going
14	Q. So in your simulated test, you did not	14	to have one or two scrub technicians
15	have an orthopedic surgeon present.	15	present. Correct?
16	Correct?	16	A. Scrub nurse, yeah.
17	A. We should have had, and that might have	17	Q. You're going to have one, as you mentioned
18	actually made it worse. We might have had	18	earlier, assistant, probably, with the
19	more bubbles going to the surgical field.	19	orthopedic surgeon. Correct?
20	Q. My question is, you did not have an	20	A. That's correct.
21	orthopedic surgeon present. Correct?	21	Q. You're going to have a circulating nurse
22	A. That's correct, but like I said	22	in the room. Correct?
23	Q. The anesthesia person	23	A. Correct.
24 25	MS. CONLIN: I don't think the	24 25	Q. You may have lab personnel come in and out
25	witness was done with his answer.	25	of the room. Correct?
	Page 112		Page 113
			1490 113
1	DR. KUMAR BELANI CONFIDENTIAL	1	DR. KUMAR BELANI CONFIDENTIAL
1 2	DR. KUMAR BELANI CONFIDENTIAL A. Usually not.	1 2	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Usually not. Q. If they need to come in, they're going to come into the room? MS. CONLIN: Calls for speculation. BY MS. LEWIS: Q. Is that right? A. If they need to come in, yeah, they will come in. Q. If a CRNA or another anesthesiologist needs to come and take your place, that person has to come in the room. Correct? A. We try to minimize that. Q. If they need to come in A. Yeah. Q to take your place, they've got to do that. A. They could Q. Right? A yeah. Because these are clean surgeries, we have signs outside the door, minimum traffic. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 DR. KUMAR BELANI CONFIDENTIAL Q. If the circulating nurse needs to go get another supply, she's going to come in and out of the room. Correct? A. Usually not, but if they have to, they have to. Q. If the scrub tech needs an additional set of sponges on the table, the circulating nurse has to come put them on the table. Correct? A. Yeah. See, the thing is these are clean surgeries, and we try to minimize traffic and movement as much as possible except for what the surgeon is doing, and as required to make the surgery go safely. But in-and-out flow, we try to minimize that. Q. And if the circulating nurse needs to put additional sponges on the table A. They usually Q for use, then she'll she'll she'll have to do that. Correct?

	Page 114		Page 115
1	DR. KUMAR BELANI CONFIDENTIAL	1	DR. KUMAR BELANI CONFIDENTIAL
2	is available on the table, and they do	2	A. Yeah.
3	what's needed. To leave the table and go	3	Q. And that didn't happen in the testing
4	look for something else doesn't happen.	4	A. It was not
5	Q. The circulating nurse doesn't leave the	5	Q that you did. Correct?
6	table. I'm saying if she needs to go get	6	A. That was not what we intended to do
7	some extra sponges.	7	Q. And it wasn't
8	A. Usually not, because this is routine	8	A so that's why we didn't do it.
9	surgery.	9	Q. And that's not a part of the testing that
10	Q. And if she needs to, she'll have to go do	10	you did. Correct?
11	that. Right?	11	A. Correct.
12	A. Rarely.	12	Q. In a normal during a normal procedure,
13	MS. CONLIN: Asked and answered.	13	the surgical lights would be on. Correct?
14 15	BY MS. LEWIS:	14 15	A. Correct.
16	Q. I understand. But you haven't answered	16	Q. And they were turned off in part of your
17	the question. Does she have to do that? A. If anything needs to be done, it will be	17	test. Correct? A. For a few seconds, yeah.
18	done.	18	Q. During a real orthopedic surgery, the
19	Q. Correct.	19	anesthesia monitor is going to be turned
20	A. So they will go.	20	on. Correct?
21	Q. So, in other words, there is movement	21	A. Correct.
22	within the room	22	Q. And that machine is going to generate
23	A. Yeah.	23	heat, or do you know?
24	Q during the orthopedic surgery.	24	A. It should, yeah.
25	Correct?	25	Q. The electric cautery is going to be used
	Page 116		Page 117
1	DR. KUMAR BELANI CONFIDENTIAL		
	DR. KUMAK BELANI CONFIDENTIAL	1	DR. KUMAR BELANI CONFIDENTIAL
2	during an orthopedic surgery. Correct?	2	A. May have. May have been.
3	during an orthopedic surgery. Correct? A. As needed.	2 3	A. May have. May have been. MS. CONLIN: Objection to form.
3 4	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your	2 3 4	A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS:
3 4 5	during an orthopedic surgery. Correct?A. As needed.Q. And that wasn't used and on during your test.	2 3 4 5	A. May have. May have been.MS. CONLIN: Objection to form.BY MS. LEWIS:Q. May have been?
3 4	during an orthopedic surgery. Correct?A. As needed.Q. And that wasn't used and on during your test.A. Mm-hmm.	2 3 4 5 6	A. May have. May have been.MS. CONLIN: Objection to form.BY MS. LEWIS:Q. May have been?A. May have been, yeah.
3 4 5 6 7	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct?	2 3 4 5 6 7	 A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS: Q. May have been? A. May have been, yeah. Q. In other words, if the surgical light was
3 4 5	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct.	2 3 4 5 6 7 8	 A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS: Q. May have been? A. May have been, yeah. Q. In other words, if the surgical light was in a different place than where you had
3 4 5 6 7 8	 during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during 	2 3 4 5 6 7	 A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS: Q. May have been? A. May have been, yeah. Q. In other words, if the surgical light was in a different place than where you had it, then you may have seen a different
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3 4 5 6 7 8 9	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember.	2 3 4 5 6 7 8 9	 A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS: Q. May have been? A. May have been, yeah. Q. In other words, if the surgical light was in a different place than where you had it, then you may have seen a different ventilation pattern. Correct? A. May have.
3 4 5 6 7 8 9 10	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at	2 3 4 5 6 7 8 9 10	 A. May have. May have been.
3 4 5 6 7 8 9 10 11	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember.	2 3 4 5 6 7 8 9 10 11 12	 A. May have. May have been. MS. CONLIN: Objection to form. BY MS. LEWIS: Q. May have been? A. May have been, yeah. Q. In other words, if the surgical light was in a different place than where you had it, then you may have seen a different ventilation pattern. Correct? A. May have. Q. If the anesthesia person had been moving instead of motionless, you may have seen a
3 4 5 6 7 8 9 10 11 12	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's	2 3 4 5 6 7 8 9 10 11 12 13	 A. May have. May have been.
3 4 5 6 7 8 9 10 11 12 13	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. May have. May have been.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of draping, lights, and personnel), which did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A. May have. May have been.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of draping, lights, and personnel), which did not include the presence of instrument	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. May have. May have been.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of draping, lights, and personnel), which did not include the presence of instrument trays and a working surgical team." Did I read that correctly?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. May have. May have been.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of draping, lights, and personnel), which did not include the presence of instrument trays and a working surgical team." Did I read that correctly? A. Correct. Q. So that's saying that if there was a different setup, then what you would have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. May have. May have been.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	during an orthopedic surgery. Correct? A. As needed. Q. And that wasn't used and on during your test. A. Mm-hmm. Q. Correct? A. Correct. Q. The anesthesia monitors were not on during your test. Correct? A. Monitors? I'm not I don't remember. Q. Let's go back to page the same page, at the beginning of that first paragraph it's noted, "It is worth mentioning, however, that the observed disruption was dependent on our exact setup (arrangement of draping, lights, and personnel), which did not include the presence of instrument trays and a working surgical team." Did I read that correctly? A. Correct. Q. So that's saying that if there was a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. May have. May have been.

Page 219 Page 218 1 1 DR. KUMAR BELANI CONFIDENTIAL DR. KUMAR BELANI CONFIDENTIAL 2 2 A. This is -- Exhibit 13 carries my A. Correct. 3 3 biography, CV. Q. And you've got approximately 52 of those 4 4 Q. Okay. And I understand that this was listed on your CV, Exhibit 11? 5 5 updated for the purposes of your testimony A. Correct. 6 6 here today? Q. Okay. What is the difference between a 7 7 A. Yeah. peer-reviewed publication and 8 8 Q. And, in fact, it lists, amongst other nonpeer-reviewed publication? 9 9 A. Peer-reviewed means it goes to a group things, your various positions at the 10 university, as well as your current 10 of -- of reviewers who are experts in the memberships and offices and professional 11 11 field that I don't have any relationship 12 organizations. Correct? 12 with, and they suggest whether the article 13 13 A. Correct. is worthwhile publishing or not. 14 14 Q. And it also lists, if we could take a look Q. Okay. 15 15 Dr. Belani, at page 6 of Exhibit 11; it's A. And they also give some edits and send it 16 16 got some publications. The first group is back with some queries. 17 entitled "peer-reviewed publications." Do 17 Nonpeer-reviewed is where, like this 18 18 one that I'm doing, "Practical Reviews in you see that? 19 Anesthesiology," it's something that I 19 A. Correct. 20 Q. And you have some 91 peer-reviewed 20 edit, and I get articles from -- like, 21 publications. Is that correct, Doctor? 21 from different anesthesiologists in the 22 22 A. Correct. field, and then we put it together and 23 Q. And then you've got in your CV, 23 send it out. 24 nonpeer-reviewed publications. Do you see 24 And then I also review some of the 25 25 that, sir? current literature, and it's not reviewed Page 220 Page 221 1 DR. KUMAR BELANI CONFIDENTIAL 1 DR. KUMAR BELANI CONFIDENTIAL 2 2 by other people, but sent out for -- as --A. I do. 3 3 as an expert opinion. BY MS. CONLIN: 4 4 Q. Okay. And with respect to Belani --Q. Okay. Now, as part of the preparation for 5 5 Dr. Belani Deposition Exhibits 4, 5, and you coming here today, you actually signed 6 6, the ones with whom you were -- or you 6 a protective order in that -- in this 7 7 were discussing with counsel for 3M, are case. Is that correct? I think it's 8 8 those peer-reviewed or nonpeer-reviewed Exhibit No. 3 in front of you. 9 9 publications? MS. LEWIS: His signature is No. 2. 10 A. Peer-reviewed. 10 A. Is that the one where I'm supposed --11 Q. Okay. And -- and they are listed, in 11 MS. LEWIS: Protective Order. 12 12 fact, on your CV under peer-reviewed A. -- to keep quiet? Yeah. 13 13 publications. Correct? BY MS. CONLIN: 14 14 Q. And is that your signature --A. Correct. 15 15 Q. And so did those three publications A. That's correct. 16 16 undergo the process that you've described? O. -- on Belani Exhibit No. 2? 17 17 A. Correct. A. Correct. 18 Q. Okay. Do you try, Dr. Belani, to uphold 18 Q. And you understand that, by signing that, 19 yourself to a high scientific and medical 19 what -- if I show you things that are 20 20 standard? otherwise confidential, you need to 21 21 A. I do. maintain that confidentiality with respect 22 Q. Okay. And do you stand behind the 22 to those? 23 23 protocols and work which resulted in A. Okay. The only question I had was how 24 Belani Deposition Exhibits 4, 5, and 6? 24 long? How long is that to be the case? 25 25 Q. Until -- well, we -- we could have a long MS. LEWIS: Objection to form.

Page 222 Page 223 1 DR. KUMAR BELANI CONFIDENTIAL DR. KUMAR BELANI CONFIDENTIAL 2 2 argument about that, but for the purposes that? 3 3 of today, I don't think I'm going to show A. I do. 4 4 you anything too controversial, but I Q. Okay. Now, when this -- following the 5 5 would like to take you through a few publication of Belani Exhibit No. 4, were 6 6 documents. you contacted by 3M at any point in time 7 7 regarding perhaps further research that A. Okay. 8 8 Q. Now, if we can take a look first at Belani needed to be performed? 9 9 Deposition Exhibit No. 4, which is the A. To date, they have not. 10 peer-reviewed article of which you are the 10 Q. Okay. They didn't contact you and say, 11 lead author, entitled, "Patient Warming 11 "you know, Dr. Belani, we would like to 12 12 Excess Heat, the Effects on Orthopedic fund a study where we actually have a 13 13 simulation where the nurse goes to get Operating Room Ventilation Performance"? 14 14 Do you see that? additional sponges that she forgot in the 15 15 A. Correct. other room"? Did they contact you about 16 16 Q. And if we could take a look, Doctor, at that? 17 the last page of this article, right 17 A. No, they have not. 18 18 before the disclosures? Q. Did they ever suggest to the U of M that 19 19 they would fund further research in these A. Yes. 20 Q. Okay. You and your co-authors write, 20 areas that you indicated -- you and your 21 quote, "Therefore, it seems that future 21 co-authors indicated might be explored 22 22 research is warranted to characterize the further clinically? 23 23 clinical conditions under which forced-air A. To my knowledge, no. 24 warming excess heat results in ventilation 24 Q. Okay. And you know folks over at 3M. 25 disruption during surgery." Do you see 25 Correct, Doctor? Page 224 Page 225 1 DR. KUMAR BELANI CONFIDENTIAL 1 DR. KUMAR BELANI CONFIDENTIAL 2 2 A. Oh, yeah. I just had an email with one of regarding the Bair Hugger that are 3 3 them yesterday. They're bringing a group reflected in Belani Exhibits 4, 5, and 6? 4 4 of Chinese physicians to come and work and A. No, she has not. 5 5 visit our operating rooms to see how we do O. Were you aware, Doctor, that 3M did both 6 things, so I was going to coordinate that 6 internal critiques of your various studies 7 7 visit for them. as well as made comments about them 8 8 Q. And -publicly? 9 9 A. I have many contacts with 3M. A. I'm not aware. 10 Q. And as an example, you know Michelle 10 O. Okay. 11 Stevens well. Correct? 11 (Exhibit No. 14 was marked for 12 12 identification by the Court Reporter.) A. Right. 13 13 Q. And you've had -- and -- and can you BY MS. CONLIN: 14 describe your sort of relationship with 14 Q. I've handed you, Doctor, what Ms. Skalicky 15 15 Dr. Stevens? has marked as Belani Deposition Exhibit 16 16 A. It's Michelle Hulse. Is that the one? No. 12 --17 17 O. Yes. MS. LEWIS: We've already got it. 18 A. She's an infectious disease specialist, 18 A. 14. 19 and I -- I collaborated with her in 19 BY MS. CONLIN: 2.0 20 getting a workshop conducted at one of the Q. Oh, 13. 21 A. 14. 21 biggest hospitals in India to promote 3M 22 22 infection control measures that can be Q. 14. Thank you. 23 used in the operating room. 23 THE REPORTER: It should be 14. 24 Q. Has -- Dr. Hulse Stevens, has she ever 24 A. Yeah, 14. 25 25 talked to you about your studies and work BY MS. CONLIN: